

INFORMATION FOR TECHNICAL REVIEW – SHOT BLASTING

Guidance for Permit Applicants

The following information will be used for the technical review of a Permit to Install application for a **shot blasting process**. This information is in addition to the general requirements outlined in the AQD document “Information for an Administratively Complete Permit to Install Application,” Part 2 - Additional Supporting Information, Items A through F. Please note that all the information may not be needed for each application, nor is this document necessarily all inclusive. Additional information beyond what is identified in this guidance may be necessary to complete the technical review of any individual application. In the event a determination is made that new additional information is needed for all technical reviews, this document will be updated.

All referenced guidance documents are available on the Air Quality Division (AQD) website at [AQD Permits to Install / New Source Review](#) or you may contact the Permit Section at 517-284-6795.

NOTE: A shot blasting process may be exempt from the requirements to obtain a Permit to Install pursuant to Rule 285(I)(vi) or Rule 290 of the State of Michigan, Department of Environmental Quality, Act 451 of 1994, Natural Resources and Environmental Protection Act and Air Pollution Control Rules. Please review these rules and contact the appropriate district office with any questions.

A. Process Description

1. Describe all process and air pollution control equipment, including make, model number and size. Identify which pieces of equipment are tied into each control device and associated stack.
2. Describe any air pollution control bypass operations. Include the reason for the bypass, the proposed location of the bypassed emissions, and the projected length and frequency of these bypasses.
3. Describe the items to be shot-blasted. Include the normal and maximum amounts of product which will be processed in one hour and one year.
4. Indicate if the exhaust air from an air pollution control device will be returned to the in-plant environment.

B. Regulatory Discussion

The following state air pollution control regulations may be applicable. Please review these regulations carefully to determine if they apply to your process and summarize the results in the application. The [Air Pollution Control Rules](#) may be viewed from the [AQD website](#). Click on “State Air Laws and Rules.”

1. State of Michigan, Department of Environment, Great Lakes, and Energy, Act 451 of 1994, Natural Resources and Environmental Protection Act, Part 55 Air Pollution Control and the following promulgated rules:
 - a) Rules 215 and 216 apply to an existing facility which has a current Renewable Operating Permit (ROP). A Permit to Install issued for the installation of new equipment or modifications to existing equipment is incorporated into an ROP pursuant to Rules 215 and 216.
 - b) Rule 301 specifies a process or process equipment shall not discharge visible emissions of a density greater than the most stringent of a 6-minute average of 20% opacity, or a limit specified as a condition of a Permit to Install.
 - c) Rule 331 specifies a maximum allowable particulate emission rate for material handling equipment if no federal limit applies.

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